

Level 2 Test – Skills

Name

Number Facts Section 2 minutes Non-calculator

10 points minus 1 point per incorrect or missing answer. Minimum 0.

Score:

/10

Tick in the right column if correct.

	Question	Answer	Tick
Q1	$4 + 1$		
Q2	$4 + 5$		
Q3	5×2		
Q4	$9 - 3$		
Q5	$7 + 8$		
Q6	$12 \div 6$		
Q7	8×5		
Q8	$14 - 9$		
Q9	$4 + 9$		
Q10	7×7		
Q11	4×6		
Q12	$24 \div 4$		
Q13	$4 + 7$		
Q14	$56 \div 7$		
Q15	$17 - 9$		

	Question	Answer	Tick
Q16	4×4		
Q17	$12 - 4$		
Q18	$8 + 5$		
Q19	$48 \div 6$		
Q20	$36 \div 9$		
Q21	8×4		
Q22	$7 + 5$		
Q23	$13 - 6$		
Q24	9×9		
Q25	$40 \div 5$		
Q26	4×2		
Q27	$40 \div 8$		
Q28	$7 + 8$		
Q29	$14 - 9$		
Q30	8×3		

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Mental Arithmetic Section 10 minutes Non-calculator

Each question is worth 1 mark. Only answers required. Scribbling paper allowed.

Score:

/15

Tick in the right column if correct.

	Question	Answer	Tick
Q1	$143 + 72$		
Q2	$350 - 181$		
Q3	500×400		
Q4	$1650 \div 30$		
Q5	458×3		
Q6	$\frac{4}{5}$ of 120		
Q7	13.5% of \$400		
Q8	400×0.03		
Q9	$0.005 \div 0.2$		
Q10	$-11 - 4.1$		
Q11	-4×-4.1		
Q12	$\frac{2}{3} \times \frac{3}{4}$		
Q13	$1 \div \frac{5}{6}$		
Q14	$9 + 12 \div 3 \times 2$		
Q15	$16 \div (2 - 5 \times 2)$		

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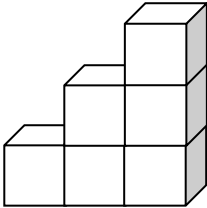
Name

Problem Solving Section 45 minutes Calculators allowed

Work on the paper provided. Show your working and explain your thinking. You will get credit for solving the problems and for your communication. Part solutions will get part of the marks.

Problem Solving Score: /25 Score in the right column.

Communication Score: /10

Q1	<p>These steps are made from six wooden cubes glued together.</p>  <p>It takes 1200 mL of paint will paint all six faces of one of the cubes. How much paint will be needed to paint the steps? (The underside is not painted.)</p>	/5
Q2	<p>There are two boys, Josh and David, and two girls, Sarah and Jess, in a family. Josh has \$20 more than Sarah who has one third as much as Jess. The two boys have twice as much money between them as the two girls. Between the four of them, they have \$240. How much does David have?</p>	/10
Q3	<p>Buster ran to his girlfriend's house at 12 km/h and staggered back at 2 km/h. He left home at 3:30 pm and got back home at 8:15 pm. If he spent 40 minutes at her house, how far is it to her place?</p>	/10

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Investigating Section

1 week

Calculators allowed

Work on the paper provided. Show your working and explain your thinking. You will get credit for what you find and for your communication.

Investigating Score: /25

Communication Score: /15

In Quadreston, all the city blocks are square and 100 m by 100 m. Beryl lives at the intersection of 3rd Avenue and 4th Street. She likes to visit Ruby who lives at the intersection of 5th Avenue and 7th Street. She likes to take a different route each time she visits her, but won't walk further than the 500 m necessary.

How many different routes can she take?

What if Ruby lived at a different intersection?

List any assumptions you make in answering this.